

A. Journal Articles:

1. M.S. Chandrasekhara, P.B. Martin and C. Tung, "Compressible Dynamic Stall Control using a Variable Droop Leading Edge Airfoil", (AIAA Paper 2003-0048), *To Appear, Journal of Aircraft*, Nov.- Dec. 2003.
2. M.S.Chandrasekhara, and M.C. Wilder, "Heat Flux Gage Studies of Compressible Dynamic Stall", (AIAA Paper 2002-0291) *AIAA Journal*, Vol.41, No. 5, pp. 757-762, May 2003.
3. M. Sahin, N.L. Sankar, M. S. Chandrasekhara and C. Tung, "Dynamic Stall Alleviation Using a Deformable Leading Edge Concept - A Numerical Study", (AIAA Paper No. 00-0520), *Journal of Aircraft*, Vol. 40, No.1, Jan. - Feb., 2003, pp. 77-85
4. M.S.Chandrasekhara, M.C. Wilder and L.W.Carr, "Compressible Dynamic Stall Control Using Dynamic Shape Adaptation", (AIAA Paper 99-0655), *AIAA Journal*, Vol. 39, No. 10, pp. 2021-2024, Oct. 2001.
5. M.S.Chandrasekhara, M.C. Wilder and L.W.Carr, "Compressible Dynamic Stall Control: Comparison of Two Approaches", (Invited AIAA Paper 99-3122), *Journal of Aircraft*, Vol. 38, No. 3, pp. 448-453, May-Jun. 2001.
6. L.W.Carr, M.S.Chandrasekhara, M.C.Wilder, and K.W.Noonan, "Effect of Compressibility on Suppression of Dynamic Stall Using a Slotted Airfoil", (AIAA Paper 98-0332), *Journal of Aircraft*, Vol. 38, No. 2, pp.296-309, Mar-Apr. 2001
7. M.S.Chandrasekhara, M.C.Wilder, and L.W.Carr, "The Control of Compressible Dynamic Stall Using Adaptive Airfoils", *IUTAM Symposium on Mechanics of Passive and Active Flow Control*, Kluwer Academic Publishers, FMIA Vol. 53, pp. 75-80, Aug. 1999.
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9. M.S.Chandrasekhara, M.C.Wilder, and L.W.Carr, "On the Competing Mechanisms of Compressible Dynamic Stall", (AIAA Paper 96-1953), *AIAA Journal*, Vol. 36, No. 3, March 1998, pp. 387-393.
10. M.S.Chandrasekhara, L.W.Carr, M.C.Wilder, C.Hiel, C.D.Sticht, and G.N.Paulson, "Design and Development of a Dynamically Deforming Leading Edge Airfoil for Unsteady Flow Control", *ICIASF'97 RECORD*, IEEE Publication No. 97CH36121, pp. 132-140.
11. M.S.Chandrasekhara, L.W.Carr, and M.C.Wilder, "Development of High Speed Imaging and Analysis Techniques for Compressible Dynamic Stall", *AGARD -CP -522*, May 1998, pp. 21.1-21.12.
12. L.W.Carr, and M.S.Chandrasekhara, "Compressibility Effects on Dynamic Stall", **Invited Paper**, *Progress in Aerospace Sciences*, Vol. 32, pp. 523-576, 1996.
13. R.D.Van Dyken, J.A.Ekaterinaris, M.S.Chandrasekhara, and M.F.Platzer, "Analysis of Compressible Light Dynamic Stall Flow at Transitional Reynolds Numbers", (AIAA Paper 94-2255), *AIAA Journal*, Vol. 34, No. 7, Jul. 1996, pp. 1420-1427.
14. M.S.Chandrasekhara, M.C.Wilder, and L.W.Carr, "Boundary Layer Tripping Studies of Compressible Dynamic Stall Flow", (AIAA Paper 94-2340), *AIAA Journal*, Vol. 34, No. 1, Jan. 1996, pp. 96-103.
15. M.S.Chandrasekhara, D.D.Squires, M.C.Wilder, and L.W.Carr, "A Phase-Locked High-Speed Real-Time Interferometry System for Large Amplitude Unsteady Flows", *Experiments in Fluids*, Vol. 20, Dec. 1995, pp. 61-67. (Also, Proc.7th International Symposium on Applications of Laser Techniques to Fluid Mechanics, Jul. 1994, Lisbon, Portugal, pp. 38.3.1-38.3.8).
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19. M.S.Chandrasekhara, L.W.Carr, and M.C.Wilder, "Interferometric Investigations of Compressible Dynamic Stall Over a Transiently Pitching Airfoil", (AIAA Paper 93-0211), *AIAA Journal*, Vol. 32, No. 3, Mar. 1994, pp. 586-593.
20. S.Ahmed, and M.S.Chandrasekhara, "Reattachment Studies of an Oscillating Airfoil Dynamic Stall Flow Field", (AIAA Paper 91-3225), *AIAA Journal*, Vol. 32, No. 5, May 1994, pp. 1006 - 1012.

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22. L.W.Carr, M.S.Chandrasekhara, S.Ahmed, and N.Brock, "A Study of Dynamic Stall Using Real-Time Interferometry ", (AIAA Paper 91-0007), *Journal of Aircraft*, Vol. 31, No. 4, Jul.-Aug. 1994, pp. 991 - 993.
23. M.S.Chandrasekhara and R.D.VanDyken, "LDV Measurements in Dynamically Separated Flows", (Proc. of the Fifth International Conference on Laser Anemometry - Advances and Applications), Aug.1993, *SPIE Vol. 2052*, pp. 305-312.
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25. M.S.Chandrasekhara, S.Ahmed, and L.W.Carr, "Schlieren Studies of Compressibility Effects on Dynamic Stall of Airfoils in Transient Pitching Motion", (AIAA Paper 90-3038), *Journal of Aircraft*, Vol. 30, No. 2, Mar.-Apr., 1993, pp. 213-220.
26. R.A.Hess, N.J.Brock, L.W.Carr, and M.S.Chandrasekhara, "A Holographic Animation of Compressible Flow Interferograms", **Prize Winning Entry** in "Gallery of Fluid Motion", *Physics of Fluids*, Vol. 4, No. 9, Sep. 1992, pp. 1869 - 1882.
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28. M.S.Chandrasekhara, A.Krothapalli, and D.Baganoff, "Performance Characteristics of an Underexpanded Multiple Jet Ejectors", (AIAA Paper 87-0248), *Journal of Propulsion and Power*, Vol. 7, No. 3, May-Jun. 1991.
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B. Conference Papers:

1. C. Shih, J. Beahn, A. Krothapalli and M.S. Chandrasekhara, "Control of Compressible Dynamic Stall Using Microjets", ASME Fluids Engineering Meeting, Honolulu, HI, June 2003.
2. P.B. Martin, C. Tung, M.S. Chandrasekhara and E. Arad, "Active Separation Control Measurements and Computations for a NACA 0036 Airfoil", AIAA-03-3516, Orlando, FL, June 2003.
3. P.B. Martin, K.W. McAlister, M.S. Chandrasekhara, and W. Geissler, "Dynamic Stall Measurements and Computations for a VR-12 Airfoil with a Variable Droop Leading Edge", presented at the AHS Forum 59, Phoenix, AZ, May 6-8, 2003, **Awarded the American Helicopter Society "Best Paper Award" for 2003.**

4. C. Tung and M.S. Chandrasekhara, "Review of Compressible Dynamic Stall Control Methods" AHS Heli Japan Conference, November 13-15, 2002, Tochigi, Japan.
5. J.A.Ekaterinaris and M.S.Chandrasekhara, "Numerical Investigation of Passive and Active Control of Unsteady Compressible Flow", AIAA Paper 00-4417, Denver, CO, Aug. 2000.
6. M.S.Chandrasekhara, "Review of Compressible Dynamic Stall and Its Control", *Invited Paper*, Proc. of the 8th Asian Congress of Fluid Mechanics, International Academic Publishers, Shenzhen, China, Dec. 1999, pp. 47-50.
7. M.S.Chandrasekhara, M.C.Wilder, and L.W.Carr, "Compressible Dynamic Stall Control Using a Shape Adaptive Airfoil", AIAA Paper 99-0650 Reno, NV, Jan. 1999 (*Under Review for AIAA Journal*).
8. W.Geissler, L.W.Carr, M.S.Chandrasekhara, M.C.Wilder and H.Sobieczky, "Compressible Dynamic Stall Calculations Incorporating Transition Modeling for Variable Geometry Airfoils", AIAA Paper 98-0705, Reno, NV, Jan. 1998.
9. M.S.Chandrasekhara, M.C.Wilder, and L.W.Carr, "Fluid Mechanics of Wing Adaptation for Separation Control", 7th Asian Congress of Fluid Mechanics, Madras, India, Dec. 8-12, 1997.
10. W.Geissler, M.S.Chandrasekhara, M.F.Platzer and L.W.Carr, "The Effect of Transition Modeling on the Prediction of Deep Dynamic Stall", 7th Asian Congress of Fluid Mechanics, Madras, India, Dec. 8-12, 1997.
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13. M.F.Platzer and M.S.Chandrasekhara, "Research on Dynamic Stall Onset and Stall Flutter", Workshop on Active Blade Vibration Control, Wright Patterson Air Force Base, OH, Aug. 14-15, 1996.
14. M.S.Chandrasekhara, M.C.Wilder, and L.W.Carr, "Reynolds Number Influence on 2-D Compressible Dynamic Stall" AIAA Paper 96-0073 , Reno, NV, Jan. 1996.
15. L.W.Carr, M.S.Chandrasekhara, and S.S.Davis, "Flow Control for Unsteady Separated Flow", Proc. NASA Langley Workshop on Enabling Technologies for Smart Aircraft Systems, Hampton, VA, May 1996.
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20. M.S.Chandrasekhara, M.C.Wilder and L.W.Carr, "Transition Effects on Compressible Dynamic Stall of Transiently Pitching Airfoils", AIAA Paper 93-2978 Orlando, FL, Jul. 6-9, 1993.
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25. M.F.Platzer, M.S.Chandrasekhara, J.A.Ekaterinaris and L.W.Carr, "Dynamic Airfoil Investigations" Proc. 5th Symposium on Numerical and Physical Aspects of Aerodynamic Flows, Jan. 1992, Long Beach, CA.

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C. Reports and Theses:

1. M.S. Chandrasekhara and C. Tung, "An Exploratory Investigation of Pulsatile Blowing to Control Compressible Dynamic Stall over an Oscillating NACA 00125 Airfoil", being now reformatted for NASA/AFDD TM
2. M.S.Chandarsekhara, Fluid Mechanics of Compressible Dynamic Stall Control Using Dynamically Deforming Airfoils", Final Report submitted to ARO, Nov. 2001.
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16. M.S.Chandrasekhara, "Hot Wire Measurements Downstream of a Centrifugal Compressor Impellor", M.E. Thesis. of Mechanical Engineering, The Indian Institute of Science, 1976.